

Amendments to the Specification:

Please replace the paragraph beginning at page 3, line 6, with the following rewritten paragraph:

The field 10 is divided into a plurality of plots 16 which are comprised of a plurality of parallel rows 17B. The plots are located in a series of parallel ranges 18 which are separated by laterally extending alleys 20 (geometrically in an "x" direction) and a series of longitudinal alleys ~~22~~ 20a (geometrically in a "y" direction). Alleys 20 and 22 are typically at right angles to each other. Each range has a plurality of parallel crop rows 17B that are comprised of crop segments 17 and alley segments 17A.

Please replace the paragraph beginning at page 4, line 9, with the following rewritten paragraph:

In operation, the harvester 21 continuously harvests grain from at least one row of mature grain plants growing in first row segments and intermittently interrupted by an alley segment where no grain plants exist. The harvester 21 straddles the row with the wheel-mounted combine 22 having the harvesting head 24 to remove grain from the grain plants in the row and delivering the removed grain upwardly and rearwardly for deposit in the grain handling assembly comprised of the plurality of grain moving parts (28, 30, 32, 34, 36, & 38) for delivery of the removed grain to a conventional grain collection hopper (not shown). Power means 39 on the harvester 21 operates the harvesting head 24 and the grain moving parts and permitting the

harvester 21 to selectively continuously move longitudinally over the row segments 17B and the alley segments 17A between the row segments 17B. The control means 41 on the combine selectively interrupts at least one of the grain moving parts as soon as the last plant in a first row segment is harvested so that no new harvested grain from a second and next adjacent row segment will be commingled with the harvested grain from the first row segment. This causes harvested grain from the second row segment to temporarily accumulate adjacent the grain moving part that is temporarily stopped. The control means 41 then actuates the power means 39 to start the stopped grain moving part after a period of time (or distance) while the harvesting head 24 is harvesting plants in the second row segment, and transporting the harvested grain from separate row segments into conventional separate collection bins (not shown) to permit the separate evaluation of the harvested grain in each row segment. Meanwhile the harvester 21 moves along the row at a continuous and constant rate of speed to avoid the necessity of stopping the harvester 21 at each alley 17A to effect the separate evaluation of the harvested grain from aligned separate row segments 17B in all row segments 17B adjacent each alley 17A.

Please replace the paragraph beginning at page 5, line 19, with the following rewritten paragraph:

This results in an increased efficiency in harvesting time as shown in Table 3. In Table 3, the horizontal line starting with 14.92 indicates seconds per plot for the new system. The column numbers starting with 25 represents seconds per plate

| plot under existing systems. Table 3 is calculated for a row of
plants 17.5 feet in length.